BRUHAT BANGALORE MAHANAGARA PALIKE
FORM PWG -45 WORK SLIP STATEMENT

Construction of Compound gate to Mini Vidhana soudha and Construction of Auditoriums in Government first grade college and Bangla Government Higher Primary school and other developmental works in Kempegowda ward No. 01

Sanctioned Estimate Amount: Rs. 1,30,00,000.00

Sanctioned Tender Amount: Rs. 1,20,56,554.00

Name of the Contractor: Sri. T K Shankarappa (M/s MESPC Infra Projects Pvt Ltd)

Operative Tender Premium 4.99% Above

Sl. No	Description of Item	Unit	As per Sch.B			As per Modified Sch.B			Executed	Upto 125%			Above 125%			Total Amount as per actuals	Excess	Remarks
			Qty	Rate	Amount	Qty	Rate	Amount	Qty	Qty	Rate	Amount	Qty	Rate	Amount			
2	Earthwork excavation by manual means for foundations, either in pits or trenches 1.5m and above in width, in soil not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches , stacking the excavated soil clear from edges from edges of excavation with lead upto 50m, including breaking of clods complete as per specification in hard soil.KSRB 2-1	Cum	666.20	339.03	225861.79	1086.26	339.03	368275.91	1086.26	832.75	339.03	282327.23	253.51	339.03	85948.68	368275.91	142414.13	-
8	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13	Cum	77.16	5211.37	402109.31	143.23	5211.37	746415.41	143.23	96.45	5211.37	502636.64	46.78	5211.37	243778.77	746415.41	344306.10	
13	KSRB 4-6.1: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications. Specification No.KBS 4.6.2	Sqm	170.80	292.54	49965.83	199.72	292.54	58426.09	199.72	199.72	292.54	58426.09	0.00	292.54	0.00	58426.09	8480.26	
15	KSRB 5-14 : Providing and constructing precast concrete solid blocks with compressive strength not less than 3.5 Newton per sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x15x20cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications.	Sqm	140.40	1080.60	151716.24	223.84	1080.60	241881.50	223.84	175.50	1080.60	189645.30	48.34	1080.60	52236.20	241881.50	90165.26	
17	Providing 18mm thick cement plaster in single coat with cement mortar to brick masonry incluing rounding off comers wherever required smooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. Cement Mortar 1:4.KSRB 6-6.3	Sqm	243.60	295.95	72093.42	512.76	295.95	151751.32	512.76	304.50	295.95	90116.78	208.26	295.95	61634.55	151751.32	79657.90	
	TOTAL				12056554.69			2839201.10				2395602.90			443598.20	2839201.10	665003.65	

Percentage of excess comparing to the sanctioned Estimated cost = $\frac{665003.65}{12056554.69} \times 100 = 5.52\ \%$

Contractor

AE
Project Division

AEE
Project Division

Executive Engineer
Project Division

"WORK SLIP APPROVED"

ಮುಖ್ಯ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore-92

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PWG -71 EXTRA ITEM RATE LIST STATEMENT

Construction of Compound gate to Mini Vidhana soudha and Construction of Auditoriums in Government first grade college and Bangla Government Higher Primary school and other developmental works in Kempegowda ward No. 01

Client : Bruhat Bangalore Mahanagara palike
Agency : Sri. T K Shankarappa (M/s MESPC Infra Projects Pvt Ltd)

Sl. No.	Item of Work	Unit	Approximate Quantity	Rate	Amount In Rs	Whether the items are alternative to items in the tender or wherther they are additional items (If items are in lieu of some items in the accepted tender, such items should be metioned	Wherther the extra item is included in the sanctioned estimate	How the extra cost of the item is propposed to be met	Whether the extra item is included in the suchedule of rate of the Division. If so reference to this item of the schedule to be given , if not data sheets should accompany the rate list	Remarks
EIRL -1	Granite Stone pillar 7ftx1ftx1ft including fixing, crane and transportation charges etc., (Approved Data Rate)	No	15.00	60000.00	900000.00	Additional Item	No	in the savings of other items in the same estimate		
EIRL -2	Granite Stone kalsa 2ftx1ftx1ft including fixing and transportation charges etc., (Approved Data Rate)	No	15.00	10000.00	150000.00	Additional Item	No	in the savings of other items in the same estimate		
EIRL -3	KSRB 15-16.1 : Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. - with primer. (P.No-118,I No-15.53.2)	Sqm	546.40	110.16	60191.42	Additional Item	No	in the savings of other items in the same estimate		
	EIRL TOTAL				**1110191.42**					

Total Amount of Sanctioned Tender	=	12056554.00
Net Excess Amount of EIRL	=	1110191.42
Total % excess to the Tendered Amount	=	9.21 %

"EIRL APPROVED"

Assistant Engineer
Project Division

Assistant Executive Engineer
Project Division

Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore-92

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BRUHAT BANGALORE MAHANAGARA PALIKE
COMPARATIVE STATEMENT

Construction of Compound gate to Mini Vidhana soudha and Construction of Auditoriums in Government first grade college and Bangla Government Higher Primary school and other developmental works in Kempegowda ward No. 01

Sanctioned Estimate Amount: Rs. 1,30,00,000.00

Sanctioned Tender Amount: Rs. 1,20,56,554.00

Name of the Contractor: Sri. T K Shankarappa (M/s MESPC Infra Projects Pvt Ltd)

Operative Tender Premium 4.99% Above

Sl. No	Description of Item	Unit	As per Sch.B			As per Modified Sch.B			Executed	Upto 125%			Above 125%			Total Amount as per schedule	Excess	Saving
			Qty	Rate	Amount	Qty	Rate	Amount	Qty	Qty	Rate	Amount	Qty	Rate	Amount			
1	Dismantling (By Mechanical means) of existing stage and surrounding structure comprising of masonry, cement concrete, wood work, steel work including T&P and scaffolding wherever necessary, sorting the dismatled material, disposal of unserviceable material and stacking the servicable material with all lead, lifts, loading and unloading complete as per direction of Engineer in charge.KSRB M200-14.2	Cum	59.62	398.00	23728.76	0.00	398.00	0.00	0.00	0.00	398.00	0.00	0.00	398.00	0.00	0.00	0.00	
2	Earthwork excavation by manual means for foundations, either in pits or trenches 1.5m and above in width, in soil not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches , stacking the excavated soil clear from edges from edges of excavation with lead upto 50m, including breaking of clods complete as per specification in hard soil.KSRB 2-1	Cum	666.20	339.03	225861.79	1086.26	339.03	368275.91	1086.26	832.75	339.03	282327.23	253.51	339.03	85948.68	368275.91	142414.12	
3	KSRB 2.8 : Providing and Filling in foundation with granite / trap broken metal 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications. specification. No. KBS	Cum	97.20	2754.22	267710.18	0.00	2754.22	0.00	0.00	0.00	2754.22	0.00	0.00	2754.22	0.00	0.00	0.00	
4	KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. In depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. Including cost of all labour complete as per specifications. No. KBS 2.9	Cum	183.24	227.91	41762.23	0.00	227.91	0.00	0.00	0.00	227.91	0.00	0.00	227.91	0.00	0.00	0.00	
5	KSRRB M400-19. Construction of Median and island above road level with approved material deposited from soil deposits, spread, sloped and compacted as per Clause 400.7 complete as per specifications. MORTH Specification No. 407	Cum	613.10	236.98	145292.44	0.00	236.98	0.00	0.00	0.00	236.98	0.00	0.00	236.98	0.00	0.00	0.00	
6	Providing and injecting chemical emulsion for Pre-constructional Anti-Termite Treatment creating continuous chemical barrier under and around the column pits, walls, trenches, basement excavation, top surface of the plinth filling, junction of wall and floor, along the external perimeter of building, expansion joints, over the top surface of consolidated earth on which apron is to be laid, Surrounding of pipes and conduits, with chloropyriphos emulsifiable concentrates of 20% concentration at 3.19 Litre/sqm., including cost of chemical, diluting in water to one percent concentration, labour, HOM complete as per specifications. (Plinth area of the building at ground floor only shall be measured) Specification No. KBS : 3.2.6 / 3.2.7	Sqm	380.00	120.19	45672.20	0.00	120.19	0.00	0.00	0.00	120.19	0.00	0.00	120.19	0.00	0.00	0.00	

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	Providing and laying in position plain cement concrete of mix 1:4:8 with OPC @ 180 Kgs. with 40mm and down size graded granite metal coarse aggregates @ 0.85 cum and fine aggregates @ 0.57 cum machine mixed, machine mixed, concrete laid in layers not exceeding 15cms thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1.4.6																				
7	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications KBS 5.1.13	Cum	117.42	5765.12	679288.79	32.36	5765.12	36.34	36.34	187206.48	210242.83	5765.12	0.00	6147.96	1320615.15	0.00	6147.96	0.00	2102423	0.00		
8	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chisle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications KBS 5.1.13	Cum	77.16	5211.37	402109.31	143.23	5211.37	143.23	86.45	746415.41	5026.36.64	46.78	5211.37	2437.78.77	7464154.1	3446.86.49						
9	KSRB 15.1 Providing flush pointing 20 mm deep to square rubble, course or uncoursed stone masonry with cement mortar after raking joints to depth of 20mm nicely lining, including cost of materials, labour,curing complete as per specifications	Cum	113.45	6217.13	705333.40	14.14	6217.13	68.23	68.23	87910.22	424196.33	0.00	6217.13	0.00	424196.33	0.00						
10	KSRB 4.1.6 : Providing and laying in position reinforced cement concrete of design mix M15 with OPC cement @ 240Kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.870cum and fine aggregates @ 0.459cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintes, retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets,coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, curing complete as per specifications	Sqm	339.38	159.88	54260.07	62.04	159.88	248.11	248.11	10046.86	39667.83	0.00	159.88	0.00	39667.83	0.00						
11	KSRB 5-14 : Providing and constructing precast concrete solid blocks with compressive strength not less than 3.5 Newton per sqm with cement mortar 1:4 masonry (quoin, jamb, closer blocks) with solid concrete blocks of size 40x15x20cms conforming to I.S. 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications	Sqm	140.40	1080.60	151716.24	223.84	1080.60	223.84	175.60	24188150	189645.30	48.34	1080.60	522.36.20	24188150	90165.20						
12	Beams, Staircase and Roof with M-20 -tooling Concrete KSRB 4-6.1 Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications Specification No KBS 4.6.2	Cum	28.43	6172.91	175495.83	0.00	6172.91	0.00	0.00	0.00	0.00	6172.91	0.00	6172.91	0.00	0.00						
13	KSRB 4-6.9 :Providing and removing centering, shuttering, strutting, propping etc., for edges of slabs and breaks in floor including cost of all materials, labour complete as per specifications Specification No. KBS 4.6.2	Sqm	170.80	292.54	49965.83	49.64	292.54	199.72	199.72	14521.69	58426.09	0.00	292.54	0.00	58426.09	8400.26						
14	KSRB 5-14 : Providing and constructing precast concrete solid blocks with compressive strength not less than 3.5 Newton per sqm with cement mortar 1:4 masonry (quoin, jamb, closer blocks) with solid concrete blocks of size 40x15x20cms conforming to I.S. 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications	Sqm	46.80	656.09	40065.01	0.00	656.09	0.00	0.00	0.00	0.00	656.09	0.00	656.09	0.00	0.00						
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	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 - TMT bars Fe 500	MT	6.00	60467.78	531087.35	1.71	60467.78	137999.90	3.71	3.71	60467.78	250255.51	0.00	60467.78	0.00	250255.51	0.00	0.00
16	Providing 15mm thick cement plaster in single coat with cement mortar to brick masonry including rounding of corners wherever required smooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. Cement Mortar 1:4.KSRB 6-6.3	sqm	243.00	295.95	72093.42	512.76	295.95	151751.32	512.76	304.50	295.95	90116.78	208.26	295.95	616534.55	151751.32	7660.90	
17	KSRB 14.5 : Providing and laying flooring and steps fine machine polished granite stone slabs 20 mm thick on cement mortar bed 1:6, 20 mm thick, and joints finished with cement mortar 1:3 over existing cement concrete bed , including cost of materials, labour, curing complete as per specifications. Specification No. KBS 14.26	sqm	382.31	1342.53	513262.64	0.00	1342.53	0.00	0.00	0.00	1342.53	0.00	0.00	1342.53	0.00	0.00	0.00	0.00
18	Fabricating, supplying and erecting M.S. Angular Truss for all spans as per approved designs and drawing. The entire truss is anchored suitably by using 4 Nos. of M.S. anchor bolts at each support, with base plate and shoe plate. The work includes cutting, Straightening, placing in position of M.S angle and welding wherever necessary, and applying one coat of red oxide primer coat to all the members including cost of materials, labour charges, & fire charges of	Kg	11617.55	145.14	1686171.21	0.00	145.14	0.00	0.00	0.00	145.14	0.00	0.00	145.14	0.00	0.00	0.00	0.00
19	manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3	cum	37.00	147.41	5454.17	0.00	147.41	0.00	0.00	0.00	147.41	0.00	0.00	147.41	0.00	0.00	0.00	0.00
22	KSRRB M300-1 KSRRB 300-1 Earthwork excavation by																	

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23	KSRB 14.6-1: Providing & laying heavy duty cobble stones 60mm thick interlock pavers,using cement & course sand for manufacture of blocks of approved size ,shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (Avg thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications. Specification No. KBS	cum	747.50	1193.99	892507.53	0.00	1193.99	0.00	0.00	0.00	1193.99	0.00	0.00	1193.99	0.00	0.00	0.00	
24	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete.	No	333.00	462.63	154055.79	0.00	462.63	0.00	0.00	0.00	462.63	0.00	0.00	462.63	0.00	0.00	0.00	
25	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8	Sqm	52.50	90.71	4762.28	0.00	90.71	0.00	0.00	0.00	90.71	0.00	0.00	90.71	0.00	0.00	0.00	
26	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of Design Mix M20 with OPC @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.460 cum, with super plasticisers @ 3 liters confirming to IS 9103-1999 reafirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6	Cum	26.32	6416.69	168887.28	17.91	6416.69	114922.92	19.12	19.12	6416.69	122661.45	0.00	6416.69	0.00	122661.45	0.00	
27	KSRB 4.2.8: Providing and laying in position reinforced cement concrete of design Mix M20 with OPC @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @ 0.46cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintels, and beams retaining walls, return walls, walls (any thickness) including attached pilasters, columns,pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6	Cum	12.10	6680.89	80838.77	0.00	6680.89	0.00	0.00	0.00	6680.89	0.00	0.00	6680.89	0.00	0.00	0.00	

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28	supplying and erecting M.S. tubular trusses of all spans as per approved drawing & design with prefabricated steel applications using quality material and are durable, reliable and corrosion and abrasion resistant. Welding shall confirm to latest structural welding code. Quality shall be on various parameters like shape, size, design gauge and polish. The entire trusses is anchored in RCC column by using 4 nos of M.S. anchor bolts at each support with 10mm thick base plate and shoe plate. The work includes cutting, straightening, placing in position of M.S. pipes and welding wherever necessary and applying one coat of redoxide primer coat to all the members including cost of all materials, labour charges, and hire charges of machineries for cutting, welding, grinding and erection equipments, with all lead and lift, transportation, letc., complete as per specification	Kg	7412.69	104.32	773291.82	0.00	104.32	0.00	0.00	0.00	104.32	0.00	0.00	104.32	0.00	0.00	0.00	
29	KSRRB M200-13.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. II. By Mechanical Means. A. Cement Concrete Grade M-15 & M-20. MORTH Specification No. 202.	CUM	120.45	442.22	53265.40	0.00	442.22	0.00	102.60	102.60	442.22	45371.77	0.00	442.22	0.00	45371.77	0.00	
30	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13	Cum	89.10	5095.71	454027.76	0.00	5095.71	0.00	0.00	0.00	5095.71	0.00	0.00	5095.71	0.00	0.00	0.00	
31	Fabricating, providing and erecting in position of MS Hot Dip Galvanized Sq. Hallow Poles of 132 x 132 Heavy gauge of length 3000mm with MS. Hot dip galvanized grill work as per approved design and drawing of chief architect. Using 12x75mm galvanized flat for alround frame and 20mm x 20mm galvanized-forged design with square for for vertical al 150mm C/C as shown in the drawing including providing forged ornamental arrow head in top and bottom. The work is inclusive of throughing flat, square rods, placing welding all the joints, including grinding, finishing 2 coats of anticorrosive paint over one coat of metal primer. The rate is inclusive of all materials like MS. Hollow galvanized pipe, flats, forged square rods, cost of labour for all items of work cost painting, welding, cutting, grinding with all lead and lift as per specification including loading and unloading with cost and conveyance of all materials, labour, machinery and incidental charges for the successful completion of the work as per the direction Engineer-in-charge of the work.	Sqm	168.00	9600.43	1612872.24	0.00	9600.43	0.00	0.00	0.00	9600.43	0.00	0.00	9600.43	0.00	0.00	0.00	

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	Fabricating, providing and erecting in position mxr de galvanized (little Liking 72 x 72 x 4 mm Eq. G I Pipe Frame with top pipe bending in heavy duty hydraulic press with sand packing and hot bending to form double arch as per drawing profile. 20mm Nor dip galvanized eq rod for vertcals at 150mm c/c. as shown in the drawing including providing hor do galvanized forged ornamental design in between rods and heads at top, middle and bottom. Intermediate supports of 75x12mm and 50x6mm arch bare to hot dip galvanized fabrication the work is inclusive of brougning Gi. flat Gi 5qm rods placing welding all the joints including grinding, finishing metal paty, painting two coats enamel painting The rate is inclusive of all materials Like G I Eq Gi Pipe, Gi Forged designs etc., Heavy duty hinges are made out of 75mm sold eq block assembled with 20mm du bearing in type places for each top. Heavy duty locking arrangement of tow places for including cost of labour, painting, erection charges using hoist pulley cranes with all lead and lift, loading, transportation, unloading, scaffolding charges and all other incidental charges for successful completion of the work as per directions of the Engineering charge of the work.	Sqm	22.40	13097.53	293394.67	0.00	13097.53	0.00	0.00	0.00	0.00	13097.53	0.00	0.00	0.00	0.00	
32	Supplying and wrng adopting loop system in existing PVC Conduit /casing capping using copper PVC insulated multi stranded 2x1.5Sqmm copper wre with a 6Amps flush type Sp control switch shall be fixed on the existing plastic sheet/ gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. (5/2 1) I. Point wrng using class A Materials c) Long point above 6Mr up to 10Mr from lapping point to out let via switch GROUP A	Each	50.00	381.11	19055.50	0.00	381.11	0.00	0.00	0.00	0.00	381.11	0.00	0.00	0.00	0.00	
33	wiring for lightingpower circuit using one of FRLS PVC insulated 1100V grade, multistrand 1x15qmm copper wre with low conductor resistance single core wire in open or concealed system of wring specified IS-694 (GROUP-A. Supplying and mounting 2 Nos. of 2 way 6 amps flush type switches either surfacemflush mounted on existing gang box or in 4mm thick plastic sheet and mounted on a flush mounted wooden box and wrng as required (15/3 2)	Each	200.00	13.65	2730.00	0.00	13.65	0.00	0.00	0.00	0.00	13.65	0.00	0.00	0.00	0.00	
34	Supplying 6A flush type socket and 6 amps flush type Sp switch either flush mounting in a existing in a 4mm thick plastic sheet and fixing over a flush mounted wooden box and wrng using necessary capacity wres as required (15/3 1) b) 6Amps 3/5 way switch socket.	Each	50.00	157.49	7874.50	0.00	157.49	0.00	0.00	0.00	0.00	157.49	0.00	0.00	0.00	0.00	
35	Supplying and wrng adopting loop system in existing PVC Conduit /casing capping using copper PVC insulated multi stranded 2x1.5Sqmm copper wre with a 6Amps flush type Sp control switch shall be fixed on the existing plastic sheet/ gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. (5/2 1) I. Point wrng using class A Materials b) Medium point above 3Mr up to 6Mr from lapping point to out let via switch GROUP A	Each	100.00	257.23	25723.00	0.00	257.23	0.00	0.00	0.00	0.00	257.23	0.00	0.00	0.00	0.00	
36	Supplying and wrng adopting loop system in existing PVC Conduit /casing capping using copper PVC insulated multi stranded 2x1.5Sqmm copper wre with a 6Amps flush type Sp control switch shall be fixed on the existing plastic sheet/ gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. (5/2 1) I. Point wrng using class A Materials a) 5Amt point up to 3Mr from lapping point to out let via switch GROUP A	Each	100.00	182.66	18266.00	0.00	182.66	0.00	0.00	0.00	0.00	182.66	0.00	0.00	0.00	0.00	
37	Supplying and wrng adopting loop system in existing PVC Conduit /casing capping using copper PVC insulated multi stranded 2x1.5Sqmm copper wre with a 6Amps flush type Sp control switch shall be fixed on the existing plastic sheet/ gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. (5/2 1) I. Point wrng using class A Materials a) 5Amt point up to 3Mr from lapping point to out let via switch GROUP A	Each	100.00	179.53	17953.00	0.00	179.53	0.00	0.00	0.00	0.00	179.53	0.00	0.00	0.00	0.00	
38	Supplying and fixing of bakelite modular switch socket /stepped electronic fan regulator on existing modular switch plate as per IS 3854 and IS 1293	Each	20.00	300.27	6005.40	0.00	300.27	0.00	0.00	0.00	0.00	300.27	0.00	0.00	0.00	0.00	
39																	

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40	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve , indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required.(47/6.16) 5-32Amps SPN Group 'A'	Each	15.00	438.86	6582.90	0.00	438.86	0.00	0.00	0.00	438.86	0.00	0.00	438.86	0.00	0.00	0.00	
41	Supplying PVC/GI flexible conduit pipe...mm dia fixing on surface over inverted tapered wooden plugs or phill plugs or rawl plugs and clamped using heavy gauge saddles at an interval of 300mm using NF screws and the either end of the pipe terminatedcompletely.(3/1.9)a) 25mm	Mtr	20.00	24.15	483.00	0.00	24.15	0.00	0.00	0.00	24.15	0.00	0.00	24.15	0.00	0.00	0.00	
42	Wiring for lighting/power circuit using one of PVC insulated 1100v grade, multistrand Copper conductor single core cable in open orconcealed system of wiring. (6/2.5) DISTRIBUTION BOARDS AND 15 Amps plug points 4 sqmm	Mtr	500.00	30.66	15330.00	0.00	30.66	0.00	0.00	0.00	30.66	0.00	0.00	30.66	0.00	0.00	0.00	
43	Supplying tinned copper lugs and crimping and wiring to termina point for wire of the following sizes.(64/7.21)4/6 sqmm	Each	100.00	6.56	656.00	0.00	6.56	0.00	0.00	0.00	6.56	0.00	0.00	6.56	0.00	0.00	0.00	
44	Supplying of 4' feet - LED PVC Square batten 28W with high quality diffuser with Life 25000 burning hours & 70% limen maintence with CRI > box type suitable for 28W T5 single t 80. Power input; 220-240V @ 50Hz & power factor > 0.9 along with CE approved drivers. 5years warranty against any manufacturing defect working u win lamp & suspennder standerd electrical condition. (25/4.29.2) 1x4'-28 Watts	Each	70.00	1862.52	130376.40	0.00	1862.52	0.00	0.00	0.00	1862.52	0.00	0.00	1862.52	0.00	0.00	0.00	
45	Fixing all types and all capacities of fluorescent / false ceilling / spot / LED fittings indoor on the wall / celling / rafters / girders using 23/0.0076" twin twisted PVC insulated wires, required Nos of round blocks and clamps. (108/17.7)	Each	100.00	102.89	10289.00	0.00	102.89	0.00	0.00	0.00	102.89	0.00	0.00	102.89	0.00	0.00	0.00	
46	Supplying of 1440rpm heavy duty exhaust fan with bracke ttblades suitable to operate on 230V 50Hz, AC Supply complete.(78/9.2.2) I) 12" Sweep (300mm)	Each	6.00	3836.33	23017.98	0.00	3836.33	0.00	0.00	0.00	3836.33	0.00	0.00	3836.33	0.00	0.00	0.00	
47	Supplying capacitor type ceiling fan complete with down rod blades, shackle, canopies etc., for operation on 230 volts, 50 cycles. Single phase AC supply conforming to ISS-374-1979 and with double ball bearing system and as per technical data approved.(78/9.3.1.2) a.Regular model (Khaitan, Crompton Greaves, Orient, Polar, Bajaj,Havells) 48" (1200mm)	Each	20.00	1994.81	39896.20	0.00	1994.81	0.00	0.00	0.00	1994.81	0.00	0.00	1994.81	0.00	0.00	0.00	
48	Supplying of 2'x2' LED recessed liminaire with 36 Watts system wattage. Housing Shall be with pressure die cast aliminum alloy with corrosion proof resistant polyester power coated. Drive operates with voltage range from 100V to 270V 50/60Hz with short circuit, overload and mis-wiring protection. Lumen Maintenance of 70% at 70% at 500000 Hrs. injuction moulded poly carbonate diffuser for better mechanical stability, light transmission & avoid pot hole effect. Junction Temperature shall be <70 degree Celsius. Driver is on constant current driver @ 0.06A with PF >0.92 with line voltage @ 220-240V 50/60Hz, driver efficiency > 85% & THD< 15%, LED Efficiency > 130 im/W at 1W & Fixture Efficiency > 75im/w with CRI > 75 with injuction moulded polycarbonate lens with < 80mm depth. 5Years Warrenty against any manufacturing defect working under standerd electrical condition.(26/4.33.2) a)2'x2'-36Watts	Each	10.00	8653.28	86532.80	0.00	8653.28	0.00	0.00	0.00	8653.28	0.00	0.00	8653.28	0.00	0.00	0.00	

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49	Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete. (49/6.40.1)a) 14SWG	Sqcm	28000.00	0.39	10920.00	0.00	0.39	0.00	0.00	0.00	0.39	0.00	0.00	0.39	0.00	0.00	0.00	
50	Supplying ..... amps rated 3phase with neutral bus bar using required capacity electrolytic alluminium strips covered with heat shrinkable coloured PVC sleeve, mounted on phenolic/FRP/DM insulator which are mounted on powder coated 40x6mm M.S.flat frame work in existing panel board. The bus bar shall have suitable holes for termination of incoming and outgoing cables as per IS specification with necessary botls,nuts and washers etc., complete.(49/6.38.1) b) 100Amps 4x30x10mm Alluminium Strips	Rmtr	5.00	2241.54	11207.70	0.00	2241.54	0.00	0.00	0.00	2241.54	0.00	0.00	2241.54	0.00	0.00	0.00	
51	Supplying and fixing of LED type panel board indicating lamp with required colour suitable for 220v A.C. 50 Hz 12/24v D.C (48/6.36) Group A	Each	3.00	464.06	1392.18	0.00	464.06	0.00	0.00	0.00	464.06	0.00	0.00	464.06	0.00	0.00	0.00	
52	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve , indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required (47/6.16) a) 5-32Amps SP Group 'A'	Each	5.00	434.66	2173.30	0.00	434.66	0.00	0.00	0.00	434.66	0.00	0.00	434.66	0.00	0.00	0.00	
53	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat ... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. (49/6.39) d) 50x50x6mm C channel	Rmtr	2.00	354.87	709.74	0.00	354.87	0.00	0.00	0.00	354.87	0.00	0.00	354.87	0.00	0.00	0.00	
54	Supplying and running of GI/Copper strips for groundingconnections, using necessary fixing materials as required (55/7.3.1) GI strip 25x3mm	Mtr	25.00	80.84	2021.00	0.00	80.84	0.00	0.00	0.00	80.84	0.00	0.00	80.84	0.00	0.00	0.00	
55	Supplying of LT UG cable having aluminium conductor PVC insulated, sheathed, galvanised, steel wire/steel tap armoured cable with PVC outer sheathing 1.1 KV class (55/7.4) Class 'A' PVC Cable 3.5 core 25 sqmm	Mtr	150.00	689.78	103467.00	0.00	689.78	0.00	0.00	0.00	689.78	0.00	0.00	689.78	0.00	0.00	0.00	
56	Digging of trench of 0.6m deep x 0.50 mtr wide refiling the trench to the required ground level and consolidatingetc., complete.(As per Civil SR KSRB I-2, P-7)(61/7.9)In soil (ordinary)	Mtr	25.00	81.89	2047.25	0.00	81.89	0.00	0.00	0.00	81.89	0.00	0.00	81.89	0.00	0.00	0.00	
57	Supplying tinned copper lugs and crimping and wiring to minal point for wire of the following sizes (64/7.21) f) 25 sqmm	Each	8.00	253.03	2024.24	0.00	253.03	0.00	0.00	0.00	253.03	0.00	0.00	253.03	0.00	0.00	0.00	

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58	Supply of LED floodlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with injection moulded polycarbonate/clear glass material, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/ Overload, short circuit/ miss-wiring protection. Compatible for pole mouting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS 10322/ IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w, nominal CRI >75. Luminaire manufacturer should have inhouse facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be	Each	9.00	18898.20	170083.80	0.00	18898.20	0.00	0.00	0.00	18898.20	0.00	0.00	18898.20	0.00	0.00	0.00	
59	Supply of LED pole mounting type post top lantern with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate/ clear glass material, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/Overload, short circuit/ miss-wiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS . UL approved MCPCB . LED Efficiency>130lm/w, nominal CRI >75. Luminaire manufacturer should have inhouse facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 2 Years against any manufacturing defect working under	No	24.00	5879.44	141106.56	0.00	5879.44	0.00	0.00	0.00	5879.44	0.00	0.00	5879.44	0.00	0.00	0.00	
	TOTAL				12056554.69			2111498.80				2395602.90			443598.20	2839201.10	865003.65	

Contractor

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ಯಲಹಂಕ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

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